

**MOUNT CARMEL SCHOOL, CHANDIGARH**  
**Syllabus (Monthly Basis) Session 2023-24**  
**Subject : Science XII (Term-1)**

**ENGLISH:**

<b>April</b>	Flamingo - F-1-The last Lesson F-2 – Lost Spring P-1-My Mother at Sixty Six Writing- Notice
<b>May</b>	Flamingo - F-3 – Deep Water Vistas - Ch.-1- The Third Level Writing - Letter to Editor
<b>July</b>	Flamingo- F-4 The Rattrap F-5 - Indigo P-3-Keeping Quiet Vistas- Ch-2 Tiger King  Writing- Article
<b>August</b>	Flamingo- F-6- Poets and Pancakes F-7 - The Interview P-4 - The Thing of Beauty Vistas - Ch.-3- Journey to the End of the Earth Ch.-4- The Enemy Writing - Invitations- Formal/Informal/Replies
<b>September</b>	Flamingo - P-5 - A Roadside Stand Vistas - Ch.-4 - The Enemy (completion) Writing - Job Application with Resume, Report Writing Revision for the Terminal Examination Revision and Examination

**UNIT TEST 20 MARKS**

<b>Reading</b>	<b>7 Marks</b>
<b>Writing</b>	<b>4 Marks</b>
<b>Literature</b>	<b>9 Marks</b>
<b>Reference to context</b>	<b>3 Marks</b>
<b>Short Answer Qs.</b>	<b>2x1.5 =3</b>
<b>Long Answer Qs.</b>	<b>1x3=3</b>

**INTERNAL ASSESSMENT**

Assessment of Listening Skills - 05 Marks

Assessment of Speaking Skills – 05 Marks

Project Work 10 Marks

**SECTION A READING SKILLS (22 Marks)**

**Reading Comprehension through Unseen Passage**

- I.** One unseen passage to assess comprehension, interpretation and inference. Vocabulary and inference of meaning will also be assessed. The passage may be factual, descriptive or literary. **(12x1=12 Marks)**
- II.** One unseen **case-based** passage with verbal/visual inputs like statistical data, charts etc.  
**(10x1=10 Marks)**

**Note:** The combined word limit for both the passages will be 700-750 words. Multiple Choice Questions / Objective Type Questions will be asked.

## SECTION – B (18 Marks)

### I. Creative Writing Skills.

The section has Short and Long writing tasks.

- i. Notice up to 50 words. One out of the two given questions to be answered. (4 Marks).
- ii. Formal/Informal Invitation and Reply up to 50 words. One out of the two given questions to be answered. (4 Marks).
- iii. Letters based on verbal/visual input, to be answered in approximately 120-150 words. Letter types include application for a job with bio data or resume. Letters to the editor (giving suggestions or opinion on issues of public interest). One out of the two given questions to be answered. (5 Marks).
- iv. Article/ Report Writing, descriptive and analytical in nature, based on verbal inputs, to be answered in 120-150 words. One out of the two given questions to be. (5 Marks)

## SECTION C (40 Marks)

**This section will have variety of assessment items including Multiple Choice Questions, Objective Type Questions, Short Answer Type Questions and Long Answer Type Questions to assess comprehension, analysis, interpretation and extrapolation beyond the text.**

### Reference to the Context

- v. One Poetry extract out of two from the book **Flamingo** to assess comprehension, interpretation, analysis and appreciation. (6x1=6 Marks)
  - vi. One Prose extract out of two from the book **Vistas** to assess comprehension, interpretation, analysis and appreciation. (4x1=4 Marks)
  - vii. One prose extract out of two from the book **Flamingo** to assess comprehension, interpretation and analysis. (6x1=6Marks)
- III.** Short answer type question (from **Prose and Poetry from the book Flamingo**), to be answered in 40-50 words. Questions should elicit inferential responses through critical thinking. Five questions out of the six given are to be answered. (5x2=10 Marks)
- IV.** Short answer type question, from **Prose (Vistas)**, to be answered in 40- 50 words. Questions should elicit inferential responses through critical thinking. Any 2 out of 3 questions to be done. (2x2=4 Marks)
- V.** One Long answer type question, from **Prose/Poetry (Flamingo)**, to be answered in 120-150 words. Questions can be based on incident / theme / passage / extract / event as reference points to assess extrapolation beyond and across the text. The question will elicit analytical and evaluative response from student. Any 1 out of 2 questions to be done. (1x5=5 Marks)
- VI.** One Long answer type question, based on the chapters from the book **Vistas**, to be answered in 120-150 words to assess global comprehension and extrapolation beyond the text. Questions to provide evaluative and analytical responses using incidents, events, themes as reference points. Any 1 out of 2 questions to be done. (1x5=5 Marks)

**Note:** \* Subject to changes as per CBSE instructions.

## **MATHS: (041)**

**April :** Chapter 3- Matrices  
Chapter 4- Determinants

**May :** Chapter 2 – Inverse Trigonometric Functions  
Chapter 5 – Continuity & Differentiability

**July :** Chapter 1- Relations & Functions  
Chapter 6 - Applications of Derivatives

**August :** Chapter 7- Linear Programming  
Chapter 8 – Integrals  
Chapter 12- Applications of Integrals

**September:** Revision for First Terminal Examination

**Mathematical Activities** – (a) Lab Manual : 10 Activities  
(b) Assessment of the activities  
(c) Viva- voice

**UNIT TEST :** 20 Marks

<b>INTERNAL ASSESSMENT</b>	<b>20 MARKS</b>
Periodic Tests ( Best 2 out of 3 tests conducted)	10 Marks
Mathematics Activities	10 Marks

## CHEMISTRY :

**April**                      **Unit:2 – Solutions**

**May: Unit:3- Electrochemistry**

**July : Unit:4- Chemical Kinetics**

## Unit:8- d -and f -Block Elements

**August: Unit:9- Coordination Compounds**

## September: Revision for First Terminal Examination

### Practical Work:

**\*Volumetric Analysis:** Titration of  $\text{KMnO}_4$  with Mohr's Salt

### Titration of $\text{KMnO}_4$ with Oxalic acid

\*Content Based Experiment:

## Preparation of Crystals of Potash Alum and Mohr 'salt

**Format of Question Paper for Unit Test (For Class – XI and XII): 20 Marks**

There are 07 questions in the question paper.

- (i) SECTION -A consists of 3 very short answer questions carrying 2 marks each.
- (ii) SECTION -B consists of 3 short answer questions carrying 3 marks each.
- (iii) SECTION -C consists of 1 long answer questions carrying 5 marks.

### **Format of Question Paper for Theory Examination (For Class –XII): 70 Marks**

There are 33 questions in the question paper with internal choice.

- (i) SECTION - A consists of 16 objective questions carrying 1 mark each.
- (ii) SECTION - B consists of 5 very short answer questions carrying 2 marks each.
- (iii) SECTION - C consists of 7 short answer questions carrying 3 marks each.
- (iv) SECTION - D consists of 3 long answer questions carrying 5 marks each.
- (v) SECTION - E consists of 2 case-based questions carrying 4 marks each.

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## **BIOLOGY :**

**April:** Chapter-2: Sexual Reproduction in Flowering Plants.

## Chapter-3: Human Reproduction.

## Chapter-4: Reproductive Health.

## Chapter-5: Principles of Inheritance and Variation.

**May:** Chapter-6: Molecular Basis of Inheritance.

## Chapter-7: Evolution.

**July:** Chapter-11: Biotechnology - Principles and Processes.

**August:** Chapter-12: Biotechnology and its Applications.

**September:** Revision for First Terminal Examination

**Typology of questions: Theory (70 Marks)**

**The Question paper will consist of:**

VSA including MCQs, Assertion – Reasoning type questions; SA; LA-I; LA-II; Source-based/ Case-based/ Passage-based/ Integrated assessment questions.

**Practical Exam Format**

Time allowed: 3 Hours      Max. Marks: 30

Evaluation Scheme	Marks
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One Major Experiment	5
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One Minor Experiment	4
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Slide Preparation	5
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Spotting	7
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Practical Record + Viva Voce	4
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Investigatory Project and Viva Voce	5
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Total	30
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## **PHYSICS:**

**April:** Chapter 1 Electric Charges and field  
Chapter 2 Electrostatic Potential and Capacitance

**May:** Chapter 3 Current Electricity  
Chapter 4 Magnetic effect of Current

**July:** Chapter 5 Magnetism  
Chapter 6 Electromagnetic Induction  
Chapter 7 Alternating Current

**August:** Chapter 8 Electromagnetic Wave  
**September:** Revision for First Terminal Examination

**Practicals:** Term 1 Practicals related to the theory will be covered side by side.

**Format of Question Paper for Unit Test (For Class –XII): 20 Marks**

There are 07 questions in the question paper.

- (i) SECTION - A consists of 3 very short answer questions carrying 2 marks each.
- (ii) SECTION - B consists of 3 short answer questions carrying 3 marks each.
- (iii) SECTION - C consists of 1 long answer questions carrying 5 marks.

**Format of Question Paper for Theory Examination (For Class –XII): 70 Marks**

There are 33 questions in the question paper with internal choice.

- (i) SECTION - A consists of 16 objective questions carrying 1 mark each.
- (ii) SECTION - B consists of 5 very short answer questions carrying 2 marks each.
- (iii) SECTION - C consists of 7 short answer questions carrying 3 marks each.
- (iv) SECTION - D consists of 3 long answer questions carrying 5 marks each.
- (v) SECTION - E consists of 2 case-based questions carrying 4 marks each.

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## **INFORMATICS PRACTICES (065)**

### **Marks Distribution :-**

Theory : 70 Marks

Practical : 30 Marks

Total Marks :- 100 Marks

**April:** Unit 4 – Lesson 5 Societal Impacts  
Unit 1-- Lesson-1 Data handling using Pandas - I

**May:** Lesson-1 Data Handling using Pandas-I

**June:** Summer Vacations

**July:** Lesson -2 Data Visualization using Pyplot

**August:** Practicals and Revision of Term-I Syllabus

**September:** **Terminal Examination**

### **Practical Marks Distribution**

S.No.	Unit Name	Marks
1.	Programs using Pandas	8
2.	Programs using Pandas and Matplotlib	7
3.	Practical file (Minimum of 15 programs based on Pandas, 4 based on Matplotlib )	5
4.	Project Work (Using Concepts learned in class XI and XII) It can be done individual	5
5.	Viva-Voce	5
	Total	30

### **Terminal Examination**

Lessons 1, 2, 5  
Theory Paper - 70 Marks  
Practical Paper - 30 Marks

### **Marks Distribution – Theory Paper (70 Marks)**

Q1 to Q18	---	1x18 = 18 Marks
Q19 and Q25	---	2x 7 = 14 Marks
Q26 to Q30 (short ans. Ques)	---	3x5 = 15 Marks
Q31 to Q33 (Long Ans Ques)	---	5x3 = 15 Marks

Q34 to Q35 (Case base Ques)	---	4x2	=	8 Marks
Total	---			70 Marks

## **PHYSICAL EDUCATION:**

**April-** Unit 1: Management of Sporting Events

**May-** Unit 2: Children & Women in Sports

Unit 3: YOGA as Preventive measures for Lifestyle Disease

**July-** Unit 4: Physical Education and Sports for Children with special needs

Unit 5: Sports & Nutrition

**August** - Unit 6: Test and Measurement in sports.

**September** -Terminal Exams